






**SEIZURE SENSING AND DETECTION USING AN IMPLANTABLE DEVICE**

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**Applicant:** NEUROPACE INC (US)  
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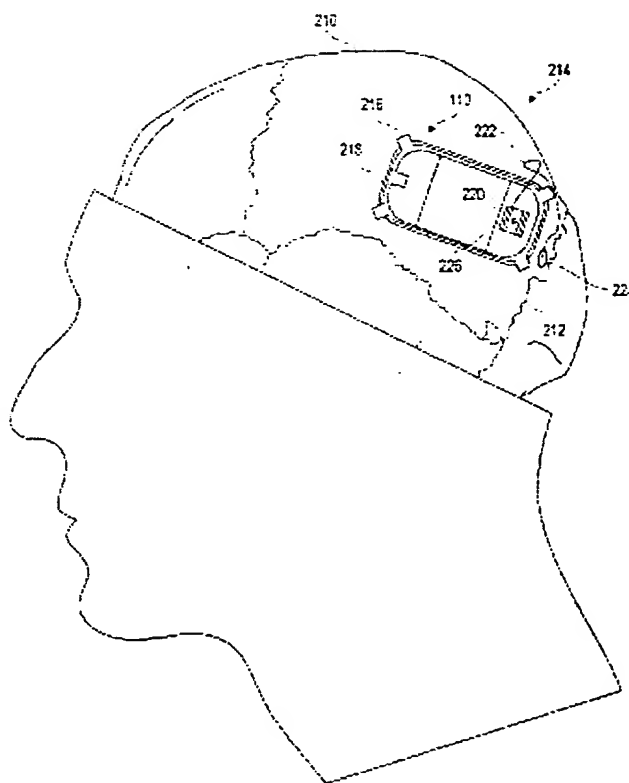
 WO03001996 (A3)  
 WO03001996 (A2)  
 EP1404216 (A3)  
 US6810285 (B2)  
 US2003004428 (A1)

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Abstract not available for EP1404216  
Abstract of correspondent: **US2003004428**

A system and method for detecting and predicting neurological events with an implantable device uses a relatively low-power central processing unit in connection with signal processing circuitry to identify features (including half waves) and calculate window-based characteristics (including line lengths and areas under the curve of the waveform) in an electrographic signal received from a patient's brain. The features and window-based characteristics are combinable in various ways according to the invention to detect and predict neurological events in real time, enabling responsive action by the implantable device.



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